TOC Gas Generator Instruction Manual

Models P011008F1, P011008F4, P011008F5

Application

The TOC Gas Generator is designed for TOC Analyzers or any system requiring up to 500 cc/min of ultra-dry, CO_2-free air.

System Requirements and Specifications

1. Inlet Air Pressure: 100-125 PSIG Oil-Free Compressed Air
2. Minimum Inlet Air Flow: 1 liter/min @ 100 PSIG
3. Outlet Air Pressure: User Regulated from 0-80 PSIG.
4. Outlet Air Flow/Purity: Up to 500 cc/min at less than 1-ppm moisture and CO_2.
5. Inlet Connection: 1/8" NPT (or 1/4" NPT Using Supplied Adapter)
6. Outlet Connection: 1/8" NPT (or 1/8" Tube Using Supplied Elbow)
7. Power Requirements: 100-240 Vac, 47-63 Hz, Single Phase, 400 mA

Inspection

Upon receipt of the TOC Gas Generator, please inspect the system to verify all parts are present and that no shipping damage has occurred. If damaged, immediately file a claim with the shipping company.

The following parts should be included. If any are missing, please contact PUREGAS.

Item	Qty	Part Description	PUREGAS Part No.
1	1	TOC Gas Generator Assembly	N/A
2	1	Filter- Coalescing, Inlet	P010616 (10F05ED)
3	1	Filter- Carbon, Inlet	P010976F1 (14F05Z)
4	1	Filter-Regulator, Outlet	P010618 (14E01B13FC)
5	1	Gauge- 1/8 NPT	PAT15093 (9692678)
6	3	1/8 NPT Hex Nipple	PTM3
7	1	Power Supply w/ Plug Adapters	P011011F1
8	1	Adapter, 1/8 NPT X 1/4 FPT	PMP25A1
9	1	Elbow- 1/8 NPT X 1/8 Tube	P011007F1
10	1	Mounting Template	P011020
11	1	Puregas Dryer/Adsorber Manual	P010535
12	1	TOC Instruction Manual	P011021

Tools Required for Installation

The following tools will be required for installation:

1. Wrenches: 7/16", 9/16", 11/16"
2. Adjustable Wrench
3. 3/16" Hex Key
4. Drill and 3/8" Bit (if wall mounting is desired)
5. Pipe Thread Sealant or Teflon Thread Tape

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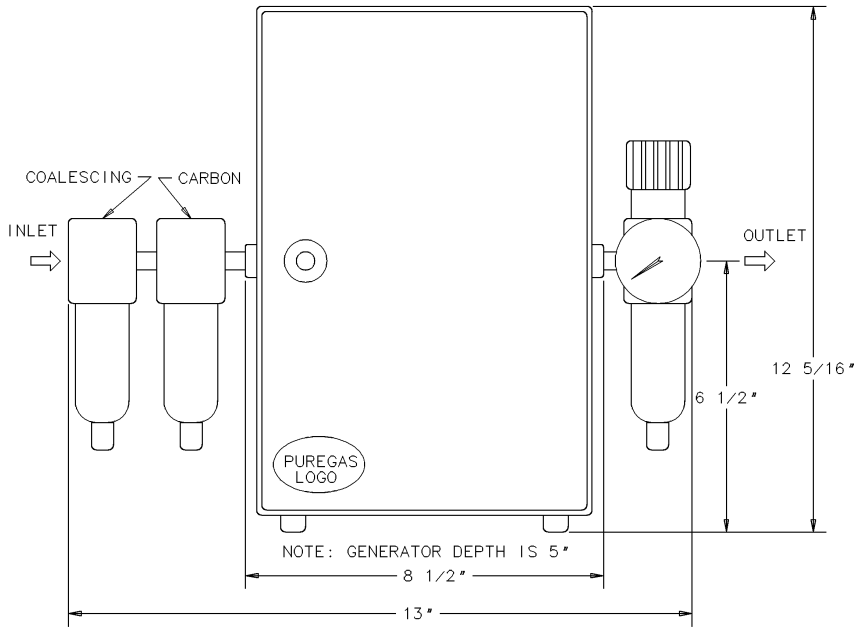

FIGURE 1. TOC Generator Installation Diagram

Set-up Procedure

1. Apply thread seal on all pipe fittings to be assembled.
2. Assemble inlet filters as per Figure 1. Note flow direction and sequence.
3. Install pressure gauge to front port of outlet filter-regulator and plug to back port using a 3/16" hex key. Assemble to outlet as per Figure 1.
4. Connect compressed air inlet line to TOC Gas Generator at filter inlet using either 1/8" NPT connection or the supplied adapter to convert to ¼" NPT. Do not allow air to flow through unit until energized (Step 6).
5. Pipe outlet from TOC Gas Generator using either 1/8 NPT connection or the supplied 1/8 Tube fitting.

6. Connect inlet power to the TOC Gas Generator using the power supply with the appropriate plug for US- or European-style electrical outlets. For other types of connections, utilize the European plug cord and cut the plug off to mount the appropriate plug. Note that the inlet power must be between 100-240 Vac at 47-63 Hertz (single phase). Note that a push-button ON/OFF switch is located on the inlet side of the unit. When the switch is in the 'OFF' position, no outlet air will be available.
7. Run the unit with the on/off switch in the 'ON' position (pushed in) with the inlet air pressure set between 100-125 PSI. The TOC Generator will cycle towers every 45 seconds, at which time a pulse of air will be released inside the generator. The unit continually purges a small stream of air for regeneration. This is normal.
8. Set the desired application pressure using the pressure regulator. First pull up to unlock, then turn the knob until the desired outlet pressure is achieved. Relock by pushing down.
9. Outlet flow must be regulated by the application or by means of a flow meter such that no more than 500 cc/min flow is allowed.
10. The TOC Gas Generator will require 3-5 hours of initial run-time before best results are achieved.

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Maintenance

At 6-month intervals, the inlet and outlet filter elements should be replaced. To replace filter elements, de-energize the system and drain pressure to 0 PSIG. Unscrew the filter bowl (counterclockwise) to access the filter element. Carefully unscrew the element (counterclockwise) and replace with new element. It is recommended that the filter bowl be cleaned with a mild soap solution before installing it back on the filter housing. After completing the element replacement, leak-test the filter with soapy water prior to returning the unit to service.

- **P010617** - Replacement Element for P010616 Inlet Coalescing Filter (1 Required)
- **P010668** - Replacement Element for P010976F1 Inlet Carbon Filter (1 Required)
- **P010621** - Replacement Element for Outlet Filter-Regulator (1 Required)

These parts are available in one convenient maintenance kit: **P011048F27 – TOC Maintenance Kit**. Be sure to schedule your next maintenance for 6 months and re-order the TOC Maintenance Kit.

For additional maintenance and replacement parts information, please see the supplied PUREGAS manual (P010535).

Further Assistance

If further assistance is required, please contact:

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